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Quantum Computing - Are Venture Capitalists Ready for Real Innovation? M:I - 2.

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This is NOT a film review of the new summer blockbuster. In fact, we are referring to Money Impossible: - 2. The mission of entrepreneur Giovanni della Rossa, who specializes in starting companies considered impossible by the average venture capitalists, is to demonstrate the possibility of quantum computing. In particular using quantum interferometric lithography to design computer chips.

This new and innovative approach is an invention of Giovanni A. della Rossa, Jonathan P. Dowling and Colin P. Williams (the latter two are scientists at Jet Propulsion Laboratory/NASA). Quantumatics Inc., which is the brainchild of Giovanni della Rossa, has an agreement with Caltech (California Institute of Technology) to develop the commercial applications of the present technology and future related patents. Caltech, which manages the intellectual property of JPL/NASA, owns 30% of Quantumatics, Inc.

The mission of Quantumatics, Inc. is to raise an initial $3,500,000 to install a quantum optics laboratory and develop the applications of the patent. Quantumatics, Inc. will then license the technology to a major chip manufacturer or start production itself. Quantum information technology has enormous growth potential. Other applications may be licensed to areas such as nanotechnology, cryptography, quantum medicine, and chemical simulation, just to mention a few (see April 2000 and June 2000 issues of Scientific American).

Giovanni A. della Rossa may not look like Tom Cruise, and this is not the story of how to save the world from a deadly flu virus, but it is the story of how science and people with vision can change the direction of the world of information technology. Paraphrasing Shakespeare's Hamlet: You can create a supercomputer in a nutshell.

The end of the 20th century witnessed unprecedented growth in our understanding and implementation of new technologies. Yet, with the dawn of the 21st century, the foundations of computer science have changed little. Until now! A computer revolution is about to unfold that harnesses the very forces of nature. That new paradigm is quantum computing.